RISK AUDIT

for



on

August 01, 2024





Executive Summary

Report



TOTAL

Medium risk

August 01, 2024

Abstract

Fidesium's automated risk assessment service was requested to perform a risk posture audit on DegenDistillery's \$DRINK token, deployed to Ethereum mainnet at address

0x2dc90Fa3a0f178ba4beE16CAc5D6c9A5a7B4C6cB

Degen Distillery is an RWA protocol which seeks to tokenize beverage distribution.

Issue Summary











Test Approach

Fidesium performed both Whitebox and Blackbox testing, as per the scope of the engagement, and relied on automated security testing.

Caveats

This audit was conducted at block 20434641. Access to the undeployed codebase was not provided, and developer hygiene was not verified. As such test coverage and other development practices have not been included in this assessment.

While the product vision is wildly innovative, the \$DRINK token is an ERC-20.

Roughly 0.3% liquidity is held by an upgradeable proxy contract:

0x6E17C74C6AF5A6aCb4C68f19DB76d803C1B311dF

By analyzing storage slots, an implementation contract was found here:

0x4c5dce0a16459a2d39eac8b7c52d3cf82ccdc908

This contract is unverified and an ABI has not been provided.

Additional risks where they exist as a function of this being a prelaunch assessment. As such, whale distribution and liquidity risks are not presently included in this rating.

Methodology

The assessment methodology covered a range of phases and employed various tools, including but not limited to the following:

- Mapping Content and Functionality of API
- Application Logic Flaws
- Access Handling
- Authentication/Authorization Flaws
- Brute Force Attempt
- Input Handling
- Source Code Review
- Fuzzing of all input parameter
- Dependency Analysis

Severity Definitions

Critical	The issue can cause large economic losses, large-scale data disorder or loss of control of authority management.	
High	The issue puts users' sensitive information at risk or is likely to lead to catastrophic financial implications.	
Medium	The issue puts a subset of users' sensitive information at risk, reputation damage or moderate financial impact.	
Low	The risk is relatively small and could not be exploited on a recurring basis, or is low-impact to the client's business.	
Informational	The issue does not pose an immediate risk but is relevant to security best practices or defence in Depth.	



Risk Overview

Team Risk

Low risk: 1

No issues found in founding team

Doxxing Status	Team Experience	Risk Summary
Public	Highly relevant	Low

Whale concentration

Holders

As this is a prelaunch assessment, whale concentration risks have not been assessed. That said, there are currently three holders:

- 1. 0x9F7dc5B7a258F3ABCFBfD288fc63559874C79144
- 2. 0x7d36697B9e4e91CA3e1F3081aFAA8DC8fF1A47A9
- 3. 0x6E17C74C6AF5A6aCb4C68f19DB76d803C1B311dF

Address 1. is holding over 99% of the token. Contract 2. is an unverified contract and an upgradeable proxty with an unverified implementation, holding 0.4% of the liquidity. Contract 3. is an upgradeable transparent proxy, with an implemntation as an unverified contract:

Address 2's implementation is deployed by a known good actor (Kaizen Finance) mitigating the risk.

Liquidity

Risk summary: N/A

As this is a prelaunch assessment, liquidity risks have not been assessed

Whale concentration

Funding

0x6E17C74C6AF5A6aCb4C68f19DB76d803C1B311dF

Funded by:

- 1. 0x5f9B6C6510BF3c3F2fDFBcB526F5458a08f3fccf
- 2. 0xB5359AfCe552240C6EF3c48C321A40EF21DEffaB
- 3. 0xB44889a0Da462090922F72D7FaF69bCEB3aDb7C6

While proxy contracts and unverified contracts are by ranking "large" holders, the total amount of the token being held by these entities (and therefore the potential impact on the ecosystem) is negligibly low.

Due to the negligible quantities of **\$DRINK** stored in these contracts, decompilation was not carried out on the bytecode

While a private wallet holds an overwhelming percentage of the supply, and there is evidence of sybilling, this token is prelaunch, and this is expected.



Vulnerabilities Medium

Reentrancy

Vulnerability severity: **Medium**Vulnerability probability: **High**

The _transfer function utilizes the following code:

```
if (_statsTracker != address(0)) {
    IStatsTracker(_statsTracker).updateTransferStats(address(this), sender, recipient, amount);
}
```

In principle, if a malicious contract were to be deployed to an address stored at _statsTracker, the external call to >updateTransferStats could be used to recursively call _transfer. This vulnerability then cascades to all callign functions, such as `transferFrom`. This vulnerability is somewhat mitigated by being gated to the statsTracker contract, which can only be set by the contract admin.

Recommendation: Apply the *check-effects-interactions* pattern. In this instance, the full code of the <u>_transfer</u> function should be modified to move the `IStatsTracker` call to the end of the function definition. Additionally Fidesium recommends the application of the <u>nonReentrant()</u> guard



Vulnerabilities Low

Missing zero check

Vulnerability severity: Low

Vulnerability probability: Low

changeAdmin does not ensure that a non zero valus is passed on adminCandidate. This could allow adminCandidate to be set to zero non deliberately.

Missing zero check

Vulnerability severity: Low

Vulnerability probability: Low

constructor does not ensure that a non zero valus is passed on statsTracker_. This could allow statsTracker_ to be set to zero non deliberately.

Missing zero check

Vulnerability severity: Low

Vulnerability probability: Low

setStatsTracker does not ensure that a non zero valus is passed on statsTracker. This could allow statsTracker to be set to zero non deliberately.

Missing zero check

Vulnerability severity: Low

Vulnerability probability: Low

constructor does not ensure that a non zero valus is passed on admin_. This could allow admin_ to be set to zero non deliberately.



Vulnerabilities Informational

Solc Version

Vulnerability severity: **Info**Vulnerability probability: **Info**

The contract was deployed with solc 0.8.4. There are no specific known security vulnerabilities in this version, however it is recommended to always use the latest solc to ensure access to all bugfixes and security infrastructure

Missing immutable annotation

Vulnerability severity: **Info**Vulnerability probability: **Info**

_decimals is only set in the constructor, and never modified. It should be marked as immutable to save gas.



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